

L Number	Hits	Search Text	DB	Time stamp
-	2	("5613117").PN.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:17
-	170	analyz\$6 near5 interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:33
-	689	analyz\$6 same interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:29
-	170	(analyz\$6 near5 interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3) and (analyz\$6 same interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:31
-	17	((analyz\$6 near5 interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3) and (analyz\$6 same interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3)) and 717/\$.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:31
-	882	templat\$1 near7 (append\$3 or modif\$3 or edit\$3 or chang\$3) and transla\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:36
-	0	(templat\$1 near7 (append\$3 or modif\$3 or edit\$3 or chang\$3) and transla\$3) and (analyz\$6 same interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3) and 717/\$.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:37
-	14	(templat\$1 near7 (append\$3 or modif\$3 or edit\$3 or chang\$3) and transla\$3) and (analyz\$6 same interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:36
-	2803	templat\$2 same (append\$3 or modif\$3 or edit\$3 or chang\$3) and transla\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:39
-	83	(templat\$2 same (append\$3 or modif\$3 or edit\$3 or chang\$3) and transla\$3) and (analyz\$6 same interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:40
-	6	((templat\$2 same (append\$3 or modif\$3 or edit\$3 or chang\$3) and transla\$3) and (analyz\$6 same interpret\$3 and (eliminat\$3 or replac\$3 or remov\$ or delet\$3) same (sequence\$1 or code or block or template or instruction\$1) and translat\$3)) and 717/\$.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2002/11/06 12:40

These products fail to create any balance between static scanning and run-time monitoring. SurfinShield employs run-time monitoring, SurfinGate uses static scanning, and Cage utilizes emulated run-time monitoring. Since static scanning is usually done on the server and run-time monitoring on the client, this imbalance also causes an imbalance between the **load** of the server and the client. To distribute the **load** between the client and the server evenly, the present inventor has determined that a combination of static scanning and run-time monitoring is needed.

Brief Summary Text - BSTX (17):

This disclosure is directed to an applet scanner that runs e.g. as an HTTP proxy server and does not require any client-side modification. The scanner combines static scanning and run-time monitoring and does not cause a heavy **load** on the server. It also does not introduce significant

Details Text Image HTML KWIC

	U	1	Document	Current	Page	Title
1			US 6272641 713/201	8		Computer network malicious code scanner method and
2			US 6092202 713/201	18		Method and system for secure transactions in a computer network
3			US 6009177 713/191	53		Enhanced cryptographic system and method with key escrow
4			US 5983348 713/200	9		Computer network malicious code scanner
5			US 5903882 705/44	42		Reliance server for electronic transaction system
6			US 5970040 713/201	50		Enhanced cryptographic system

Details Text Image HTML

United States Patent

Ji



US 5983348 A

(1) Patent Number: 5,983,348
(45) Date of Patent: Nov. 9, 1999

(54) COMPUTER NETWORK MALICIOUS CODE SCANNER

(75) Inventor: Shuang Ji, Santa Clara, Calif.

(73) Assignee: Trend Micro Incorporated, Cupertino, Calif.

(21) Appl. No.: 08/924,618

(22) Filed: Sep. 10, 1997

(51) Int. Cl.⁷ G06F 13/00

(52) U.S. Cl. 713/200, 714/38

(53) Field of Search 713/200, 714/38, 715/200, 715/201, 715/202, 715/203, 715/204, 715/205, 715/206, 715/207, 715/208, 715/209, 715/210, 715/211, 715/212, 715/213, 715/214, 715/215, 715/216, 715/217, 715/218, 715/219, 715/220, 715/221, 715/222, 715/223, 715/224, 715/225, 715/226, 715/227, 715/228, 715/229, 715/230, 715/231, 715/232, 715/233, 715/234, 715/235, 715/236, 715/237, 715/238, 715/239, 715/240, 715/241, 715/242, 715/243, 715/244, 715/245, 715/246, 715/247, 715/248, 715/249, 715/250, 715/251, 715/252, 715/253, 715/254, 715/255, 715/256, 715/257, 715/258, 715/259, 715/260, 715/261, 715/262, 715/263, 715/264, 715/265, 715/266, 715/267, 715/268, 715/269, 715/270, 715/271, 715/272, 715/273, 715/274, 715/275, 715/276, 715/277, 715/278, 715/279, 715/280, 715/281, 715/282, 715/283, 715/284, 715/285, 715/286, 715/287, 715/288, 715/289, 715/290, 715/291, 715/292, 715/293, 715/294, 715/295, 715/296, 715/297, 715/298, 715/299, 715/300, 715/301, 715/302, 715/303, 715/304, 715/305, 715/306, 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load on the server. It also does not introduce significant performance overhead during the execution of applets. The scanner provides configurable security policy functionality, and can be deployed as a client-side solution with appropriate modifications.

Detailed Description Text - DETX (29):

The digital signer component 58 digitally signs the applet (now JAR™), with a digital signature unique to the particular scanner 26, for authentication in the local domain. The applet JAR™ is then transferred to the client machine 14 for execution. Thus the only signature that a client needs to recognize is the digital signature of the signer component 58 in the scanner 26. This pre-verification simplifies system administration and reduces risks to unsophisticated users who might otherwise accidentally accept applets with unauthorized signatures.

Details Text Image HTML KWIC

U	1	Document	Current	Page	Title
1	<input type="checkbox"/>	US 6272641 713/201	8		Computer network malicious code scanner method and
2	<input type="checkbox"/>	US 6092202 713/201	18		Method and system for se
3	<input type="checkbox"/>	US 6009177 713/191	53		Enhanced cryptographic s
4	<input type="checkbox"/>	US 5983348 713/200	9		Computer network malicious code scanner
5	<input checked="" type="checkbox"/>	US 5903882 705/44	42		Reliance server for electr
	<input type="checkbox"/>	US 5903882 705/44	42		transaction system
	<input type="checkbox"/>	US 5903882 705/44	42		Enhanced cryptographic s

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United States Patent [19] Patent Number: 5,983,348
J1 [45] Date of Patent: Nov. 9, 1999

[54] COMPUTER NETWORK MALICIOUS CODE SCANNER 5,983,348 2,595 Freeman et al. 379/12
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[75] Inventor: Shuang Ji, Santa Clara, Calif.
[73] Assignee: Trend Micro Incorporated, Cupertino, Calif.
Primary Examiner—Norman Michael Wright
Attorney, Agent, or Firm—Skjerven, Morrill MacPherson, Franklin & Friel LLP; Norman R. Khavens

[21] Appl. No.: 08/926,619

[22] Filed: Sep. 10, 1997

[51] Int. Cl. G06F 13/00

[52] U.S. Cl. 713/200, 714/38

[59] Field of Search 395/183.01, 383/14, 383/15, 210/54, 210/55, 200/32, 360/3, 4, 23, 25, 713/200, 261, 200, 714/38, 37

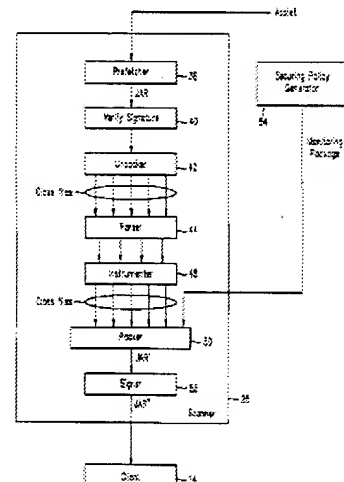
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ABSTRACT
A network scanner for security checking of application programs (e.g. Java applets or Active X controls) received over the Internet or an Intranet has both static (pre-run time) and dynamic (run time) scanning. Static scanning at the HTTP proxy server identifies suspicious instructions and retransmits them e.g. a pre-and post filter instruction sequence or otherwise. The instrumented applet is then transferred to the client (web browser) together with security monitoring code. During run time at the client, the instrumented instructions are closely monitored for security policy violations, and execution of an instruction is prevented in the event of such a violation.

24 Claims, 2 Drawing Sheets



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File View Edit Tools Window Help

Drafts

Pending

Active

L3: (0) trust\$3 same un adj1 trust\$3 same(pre adj1 verif\$7)

L4: (0) trust\$3 and (un adj1 trust\$3) and (pre adj1 verif\$7)

L5: (9) (trust\$3 or (un adj1 trust\$3)) same (pre adj1 verif\$7)

L6: (11) (trust\$3 or (un adj1 trust\$3)) and (pre adj1 verif\$7)and load\$3

L7: (12) (trust\$3 or (un adj1 trust\$3)) and (pre adj1 verif\$7)and link\$3

Failed

Saved

Favorites

Tagged (0)

UDC

Queue

Trash

USPAT EPO JPO DERWENT-IBM-TDB

Default operator OR

Highlight cch items initially

(trust\$3 or (un adj1 trust\$3)) and (pre adj1 verif\$7)and link\$3

	U	1	Document	Issue Da	Page	Title	Current	Current X	R	Inventor	S	C	P	2
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6321333	20011120	13	Efficient digital certificate processing in a data processing s	713/158	713/168		Murray, Eric	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6272641	20010807	8	Computer network malicious code scanner method and apparatus	713/201	380/252;		Ji, Shuang	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6092202	20000718	18	Method and system for secure transactions in a computer syste	713/201	705/64;		Veil, Leonard Scott et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6009177	19991228	53	Enhanced cryptographic system and method with key escrow feat	713/191	380/30;		Sudia, Frank Wells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5983348	19991109	9	Computer network malicious code scanner	713/200	714/38		Ji, Shuang	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5903882	19990511	42	Reliance server for electronic transaction system	705/44	380/30;		Asay, Alan et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	US 5872849	19990216	52	Enhanced cryptographic system and method with key escrow feat	713/175	380/286		Sudia, Frank Wells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5857022	19990105	53	Enhanced cryptographic system and method with key escrow feat	713/173	380/277;		Sudia, Frank Wells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	US 5850451	19981215	48	Enhanced cryptographic system and method with key escrow feat	380/286	370/394;		Sudia, Frank Wells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	US 5841865	19981124	54	Enhanced cryptographic system	380/286	380/277;		Sudia, Frank Wells	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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